

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

| <b>MA0005</b>  | Overall LMA Rating     | Total LMA Miles | * Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A. |             |             |         |                              |         |
|--|------------------------|-----------------|---|-------------|-------------|---------|------------------------------|---------|
| <b>Sutter Maintenance Yard Maintenance Area 0005</b> | <b>M *</b>             | <b>32.84</b>    |   |             |             |         |                              |         |
| Rated Item   | Maintenance Deficiency |                 |   |             | Enforcement |         | Design & System Obsolescence |         |
|  | M Miles                | U Miles         | M + 4U Miles  | Threshold % | M Miles     | U Miles | M Miles                      | U Miles |
| <i>Earthen Levee</i>                                 |                        |                 |   |             |             |         |                              |         |
| Vegetation   | 0.02                   |                 | 0.02  | 0.06%       | 0.09        | 0.11    |                              |         |
| Trim / Thin Trees                                    | 0.19                   |                 | 0.19  | 0.58%       |             |         |                              |         |
| Encroachments  | 0.04                   |                 | 0.04  | 0.12%       | 4.92        | 0.17    |                              |         |
| Animal Control                                       | 0.03                   | 0.02            | 0.11  | 0.33%       |             |         |                              |         |
| Slope Stability                                      | 0.09                   | 0.01            | 0.13  | 0.40%       |             |         |                              |         |
| Erosion / Bank Caving                                | 0.02                   | 0.01            | 0.06  | 0.18%       |             |         |                              |         |
| <i>Supplemental</i>                                  |                        |                 |   |             |             |         |                              |         |
| DWR UCIP Field Study                                 |                        |                 |   |             | 0.30        | 0.02    |                              |         |
| <i>LMA Totals:</i>                                   | 0.39                   | 0.04            | 0.55  | 1.67% *     | 5.31        | 0.30    | 0.00                         | 0.00    |

| <b>Unit No. 01 Butte Creek LB</b> | Overall Unit Rating    | Total Unit Miles | * Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A. |             |             |         |                              |         |
|-----------------------------------|------------------------|------------------|---|-------------|-------------|---------|------------------------------|---------|
| <b>MA0005</b>                     | <b>M *</b>             | <b>15.08</b>     |   |             |             |         |                              |         |
| Rated Item                        | Maintenance Deficiency |                  |   |             | Enforcement |         | Design & System Obsolescence |         |
|                                   | M Miles                | U Miles          | M + 4U Miles  | Threshold % | M Miles     | U Miles | M Miles                      | U Miles |
| <i>Earthen Levee</i>              |                        |                  |   |             |             |         |                              |         |
| Vegetation                        | 0.01                   |                  | 0.01  | 0.07%       | 0.09        | 0.11    |                              |         |
| Trim / Thin Trees                 | 0.16                   |                  | 0.16  | 1.06%       |             |         |                              |         |
| Encroachments                     | 0.01                   |                  | 0.01  | 0.07%       | 3.24        | 0.12    |                              |         |
| Slope Stability                   | 0.05                   |                  | 0.05  | 0.33%       |             |         |                              |         |
| Erosion / Bank Caving             | 0.01                   | 0.01             | 0.05  | 0.33%       |             |         |                              |         |
| <i>Supplemental</i>               |                        |                  |   |             |             |         |                              |         |
| DWR UCIP Field Study              |                        |                  |   |             | 0.12        |         |                              |         |
| <i>Unit Totals:</i>               | 0.24                   | 0.01             | 0.28  | 1.86% *     | 3.45        | 0.23    | 0.00                         | 0.00    |

| <b>Unit No. 02 Butte Creek RB</b> | Overall Unit Rating    | Total Unit Miles | * Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A. |             |             |         |                              |         |
|-----------------------------------|------------------------|------------------|---|-------------|-------------|---------|------------------------------|---------|
| <b>MA0005</b>                     | <b>M *</b>             | <b>16.27</b>     |   |             |             |         |                              |         |
| Rated Item                        | Maintenance Deficiency |                  |   |             | Enforcement |         | Design & System Obsolescence |         |
|                                   | M Miles                | U Miles          | M + 4U Miles  | Threshold % | M Miles     | U Miles | M Miles                      | U Miles |
| <i>Earthen Levee</i>              |                        |                  |   |             |             |         |                              |         |
| Vegetation                        | 0.01                   |                  | 0.01  | 0.06%       |             |         |                              |         |
| Trim / Thin Trees                 | 0.03                   |                  | 0.03  | 0.18%       |             |         |                              |         |
| Encroachments                     | 0.03                   |                  | 0.03  | 0.18%       | 1.68        | 0.05    |                              |         |
| Animal Control                    | 0.03                   | 0.02             | 0.11  | 0.68%       |             |         |                              |         |
| Slope Stability                   | 0.04                   | 0.01             | 0.08  | 0.49%       |             |         |                              |         |
| Erosion / Bank Caving             | 0.01                   |                  | 0.01  | 0.06%       |             |         |                              |         |
| <i>Supplemental</i>               |                        |                  |   |             |             |         |                              |         |
| DWR UCIP Field Study              |                        |                  |   |             | 0.18        | 0.01    |                              |         |
| <i>Unit Totals:</i>               | 0.15                   | 0.03             | 0.27  | 1.66% *     | 1.86        | 0.06    | 0.00                         | 0.00    |

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**Overall LMA & Unit Ratings, including USACE Erosion Survey**

***Sacramento River Basin (cont.)***

| Unit No. 03 Little Chico Creek Diversion<br>LB<br>MA0005 | Overall Unit<br>Rating | Total Unit<br>Miles |              |             |             |         |                                 |         |  |
|--|------------------------|---------------------|--------------|-------------|-------------|---------|---------------------------------|---------|--|
|  | <b>A</b>               | <b>1.49</b>         |              |             |             |         |                                 |         |  |
| Rated Item   | Maintenance Deficiency |                     |              |             | Enforcement |         | Design & System<br>Obsolescence |         |  |
|  | M Miles                | U Miles             | M + 4U Miles | Threshold % | M Miles     | U Miles | M Miles                         | U Miles |  |
| <i>Supplemental</i>                                      |                        |                     |              |             |             |         |                                 |         |  |
| DWR UCIP Field Study                                     |                        |                     |              |             |             | 0.01    |                                 |         |  |
| <i>Unit Totals:</i>                                      | 0.00                   | 0.00                | 0.00         | 0.00%       | 0.00        | 0.01    | 0.00                            | 0.00    |  |

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

|                                  | Spring<br>(March - May) | Summer **<br>(June - August) | Fall<br>(September - November) | Winter **<br>(December - February) |
|----------------------------------|-------------------------|------------------------------|--------------------------------|------------------------------------|
| † Overall LMA Rating (Fall Only) |                         |                              | M *                            |                                    |

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                               |  |                           | Bank                                     | Unit Miles                      |
|--|--|---------------------------|--|---------------------------------|
| Unit No. 01 Butte Creek                |  |                           | Left                                     | 15.08                           |
|  | Spring<br>(March - May)                  | Summer<br>(June - August) | (September - November)<br>Fall           | Winter<br>(December - February) |
| Unit Maintenance Rating<br>(Fall Only) |  |                           | M *                                      |                                 |
| Date of Inspection                     | 5/5/2016 - 5/5/2016                      |                           | 10/4/2016 - 10/4/2016                    |                                 |
| DWR Inspector                          | Keith Millard                            |                           | Tariq Chechi                             |                                 |
| Accompanied By                         | Shawn Freitag<br>Sutter Maintenance Yard |                           | Shawn Freitag<br>Sutter Maintenance Yard |                                 |

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|                              |                                  |              |                        |            |     |
|------------------------------|----------------------------------|--------------|------------------------|------------|-----|
| LM Start                     |                                  | Rating **    | A                      | Issue No.  | 11  |
| LM End                       |                                  | Issue Type + | Ma                     | Location * | LS  |
| Category                     | Earthen Levee                    |              | GPS Latitude/Longitude |            |     |
|                              |                                  |              | Start                  |            | End |
| Item                         | Operations & Maintenance Manuals |              |                        | °          |     |
|                              |                                  |              |                        | °          |     |
| DWR ID                       | DWR_MA0005_01_s_2013_11          |              |                        |            |     |
| Comment Code                 |                                  |              |                        |            |     |
|                              |                                  |              |                        |            |     |
| Inspector Comment            |                                  |              |                        |            |     |
| The LMA has the O&M manuals. |                                  |              |                        |            |     |

No Photos

|  |                                |              |                        |            |     |
|--|--------------------------------|--------------|------------------------|------------|-----|
| LM Start   |                                | Rating **    | A                      | Issue No.  | 12  |
| LM End   |                                | Issue Type + | Ma                     | Location * | LS  |
| Category   | Earthen Levee                  |              | GPS Latitude/Longitude |            |     |
|  |                                |              | Start                  |            | End |
| Item   | Emergency Supplies & Equipment |              |                        | °          |     |
|  |                                |              |                        | °          |     |
| DWR ID   | DWR_MA0005_01_s_2013_12        |              |                        |            |     |
| Comment Code   |                                |              |                        |            |     |
|  |                                |              |                        |            |     |
| Inspector Comment  |                                |              |                        |            |     |
| The LMA has adequate flood fight supplies and equipment. |                                |              |                        |            |     |

No Photos

|   |                               |              |                        |            |     |
|---|-------------------------------|--------------|------------------------|------------|-----|
| LM Start  |                               | Rating **    | A                      | Issue No.  | 13  |
| LM End  |                               | Issue Type + | Ma                     | Location * | LS  |
| Category  | Earthen Levee                 |              | GPS Latitude/Longitude |            |     |
|   |                               |              | Start                  |            | End |
| Item  | Flood Preparedness & Training |              |                        | °          |     |
|   |                               |              |                        | °          |     |
| DWR ID  | DWR_MA0005_01_s_2013_13       |              |                        |            |     |
| Comment Code                                    |                               |              |                        |            |     |
|   |                               |              |                        |            |     |
| Inspector Comment                               |                               |              |                        |            |     |
| The LMA completed flood fight training in 2014. |                               |              |                        |            |     |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 0.05                    | Rating **    | M  | Issue No.              | 45            |
| LM End  | 0.05                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Trim / Thin Trees       |              |    | 39.696790 °            | 39.696790 °   |
|   |                         |              |    | -121.774154 °          | -121.774154 ° |
| DWR ID  | DWR_MA0005_01_f_2016_45 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| T1 : Trim trees to at least five feet above ground level.   |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
| Remove wood logs from the waterside slope and trim trees to at least five feet above the levee slope. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_45\_20161014\_00058.jpg



View of the wood logs on the landside slope.

|  |                           |              |    |                        |               |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.07                      | Rating **    | M  | Issue No.              | 46            |
| LM End   | 0.07                      | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee             |              |    | GPS Latitude/Longitude |               |
|  |                           |              |    | Start                  | End           |
| Item   | Slope Stability           |              |    | 39.696611 °            | 39.696611 °   |
|  |                           |              |    | -121.774349 °          | -121.774349 ° |
| DWR ID   | DWR_MA0005_01_f _ 2016_46 |              |    |                        |               |
| Comment Code   |                           |              |    |                        |               |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. |                           |              |    |                        |               |
| Inspector Comment  |                           |              |    |                        |               |
|  |                           |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_46\_20161014\_00059.jpg



View of the damaged slope by foot traffic.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 0.08                    | Rating **    | M  | Issue No.              | 47            |
| LM End  | 0.08                    | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Encroachments           |              |    | 39.696476 °            | 39.696476 °   |
|   |                         |              |    | -121.774582 °          | -121.774582 ° |
| DWR ID  | DWR_MA0005_01_f_2016_47 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| PR : Prunings   |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
| Remove prunings on the waterside and landside slopes to allow visibility. |                         |              |    |                        |               |

No Photos

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| * Location<br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | ** Rating<br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | + Issue Type<br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|---|--|--|--|--|--|





**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 0.81                    | Rating **    | M  | Issue No.              | 48            |
| LM End  | 0.81                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Trim / Thin Trees       |              |    | 39.687332 °            | 39.687332 °   |
|   |                         |              |    | -121.777456 °          | -121.777456 ° |
| DWR ID  | DWR_MA0005_01_f_2016_48 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| T1 : Trim trees to at least five feet above ground level. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

No Photos

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 0.90                    | Rating **    | U  | Issue No.              | 49            |
| LM End            | 0.92                    | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.686087 °            | 39.685756 °   |
|                   |                         |              |    | -121.777555 °          | -121.777540 ° |
| DWR ID            | DWR_MA0005_01_f_2016_49 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| FE : Fence        |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_49\_20161014\_00061.jpg



View of the wood plank fence at the landside toe.

|                                |                           |              |    |                        |               |
|--------------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start                       | 0.98                      | Rating **    | U  | Issue No.              | 50            |
| LM End                         | 1.00                      | Issue Type + | En | Location *             | LS            |
| Category                       | Earthen Levee             |              |    | GPS Latitude/Longitude |               |
|                                |                           |              |    | Start                  | End           |
| Item                           | Vegetation                |              |    | 39.684843 °            | 39.684606 °   |
|                                |                           |              |    | -121.777132 °          | -121.776975 ° |
| DWR ID                         | DWR_MA0005_01_f _ 2016_50 |              |    |                        |               |
| Comment Code                   |                           |              |    |                        |               |
| V6 : Landscaping               |                           |              |    |                        |               |
| Inspector Comment              |                           |              |    |                        |               |
| Oleanders blocking visibility. |                           |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_50\_20161014\_00062.jpg



View of the oleanders along the landside toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 1.01                    | Rating **    | M  | Issue No.              | 51            |
| LM End  | 1.01                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Trim / Thin Trees       |              |    | 39.684497 °            | 39.684497 °   |
|   |                         |              |    | -121.776905 °          | -121.776905 ° |
| DWR ID  | DWR_MA0005_01_f_2016_51 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| T1 : Trim trees to at least five feet above ground level. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

No Photos

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 1.11                    | Rating **    | M  | Issue No.              | 52            |
| LM End  | 1.14                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Trim / Thin Trees       |              |    | 39.683208 °            | 39.682695 °   |
|   |                         |              |    | -121.776279 °          | -121.776325 ° |
| DWR ID  | DWR_MA0005_01_f_2016_52 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| T1 : Trim trees to at least five feet above ground level. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

No Photos

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 1.16                    | Rating **    | M  | Issue No.              | 43            |
| LM End            | 1.24                    | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Vegetation              |              |    | 39.682402 °            | 39.681322 °   |
|                   |                         |              |    | -121.776405 °          | -121.776506 ° |
| DWR ID            | DWR_MA0005_01_s_2016_43 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| V6 : Landscaping  |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_43\_20160823\_00023.jpg



View of the overgrown vegetation at the landside toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 1.24                    | Rating **    | U  | Issue No.              | 42            |
| LM End            | 1.26                    | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.681305 °            | 39.681044 °   |
|                   |                         |              |    | -121.776533 °          | -121.776547 ° |
| DWR ID            | DWR_MA0005_01_s_2016_42 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| FE : Fence        |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_42\_20160823\_00022.jpg



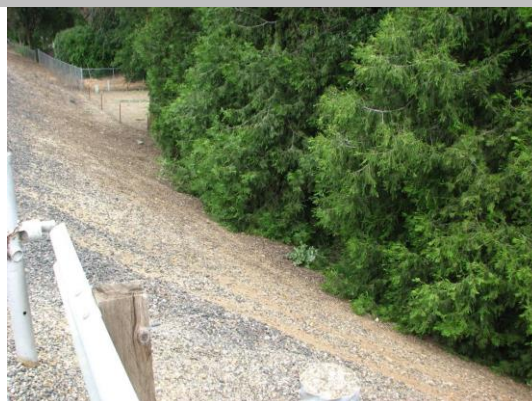
View of the wood plank fence at the landside toe.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start                                       | 1.30                    | Rating **    | U  | Issue No.              | 41            |
| LM End   | 1.36                    | Issue Type + | En | Location *             | LS            |
| Category                                       | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Encroachments           |              |    | 39.680452 °            | 39.679551 °   |
|  |                         |              |    | -121.776667 °          | -121.776904 ° |
| DWR ID   | DWR_MA0005_01_s_2016_41 |              |    |                        |               |
| Comment Code                                   |                         |              |    |                        |               |
| FE : Fence                                     |                         |              |    |                        |               |
| Inspector Comment                              |                         |              |    |                        |               |
| Wood plank fencing across multiple properties. |                         |              |    |                        |               |

No Photos

|                                    |                         |              |    |                        |               |
|------------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                           | 1.45                    | Rating **    | M  | Issue No.              | 40            |
| LM End                             | 1.45                    | Issue Type + | En | Location *             | LS            |
| Category                           | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                    |                         |              |    | Start                  | End           |
| Item                               | Vegetation              |              |    | 39.678318 °            | 39.678318 °   |
|                                    |                         |              |    | -121.777231 °          | -121.777231 ° |
| DWR ID                             | DWR_MA0005_01_s_2016_40 |              |    |                        |               |
| Comment Code                       |                         |              |    |                        |               |
| V6 : Landscaping                   |                         |              |    |                        |               |
| Inspector Comment                  |                         |              |    |                        |               |
| Cedar trees need to be trimmed up. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_40\_20160823\_00021.jpg



View of the overgrown cedar trees on the landside toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

## Sutter Maintenance Yard Maintenance Area 0005





## Sutter Maintenance Yard Maintenance Area 0005

No Photos

View of the prunings along the landside toe.

View of the prunings along the landside toe.

Page 9 of 28

## Levee Inspection Report By Mile - Fall 2016

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_10\_20160823\_00006.jpg



11/20/2013

View of the unpermitted gate.

Photo 1 of 1 : FA\_2016\_MA0005\_196\_54\_20161014\_00064.jpg



10/04/2016

View of the prunings along the landside toe.

Photo 1 of 1 : FA\_2016\_MA0005\_196\_9\_20160823\_00005.jpg



11/07/2012

View of the vehicle erosion along the landside slope.

Thursday, December 08, 2016 10:54 **FINAL DATA** Page 10 of 28



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start                                   | 2.81                    | Rating **    | C  | Issue No.              | 36            |
| LM End                                     | 2.81                    | Issue Type + | En | Location *             | LS            |
| Category                                   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item                                       | Encroachments           |              |    | 39.660203 °            | 39.660203 °   |
|  |                         |              |    | -121.785107 °          | -121.785107 ° |
| DWR ID                                     | DWR_MA0005_01_f_2015_36 |              |    |                        |               |
| Comment Code                               |                         |              |    |                        |               |
| PR : Prunings                              |                         |              |    |                        |               |
| Inspector Comment                          |                         |              |    |                        |               |
| Remove the prunings from the landside toe. |                         |              |    |                        |               |

No Photos

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start                                   | 3.06                    | Rating **    | U  | Issue No.              | 37            |
| LM End                                     | 3.06                    | Issue Type + | En | Location *             | LS            |
| Category                                   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item                                       | Encroachments           |              |    | 39.656911 °            | 39.656911 °   |
|  |                         |              |    | -121.787097 °          | -121.787097 ° |
| DWR ID                                     | DWR_MA0005_01_f_2015_37 |              |    |                        |               |
| Comment Code                               |                         |              |    |                        |               |
| PR : Prunings                              |                         |              |    |                        |               |
| Inspector Comment                          |                         |              |    |                        |               |
| Remove the prunings from the landside toe. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_37\_20161014\_00065.jpg



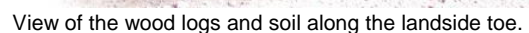
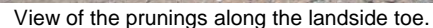
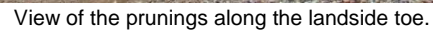
View of the prunings along the landside toe.

|  |                        |              |    |                        |               |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start                                   | 3.08                   | Rating **    | C  | Issue No.              | 2             |
| LM End                                     | 3.08                   | Issue Type + | En | Location *             | LS            |
| Category                                   | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|  |                        |              |    | Start                  | End           |
| Item                                       | Encroachments          |              |    | 39.656735 °            | 39.656735 °   |
|  |                        |              |    | -121.787163 °          | -121.787163 ° |
| DWR ID                                     | DWR_MA0005_01_f_2016_2 |              |    |                        |               |
| Comment Code                               |                        |              |    |                        |               |
| PR : Prunings                              |                        |              |    |                        |               |
| Inspector Comment                          |                        |              |    |                        |               |
| Remove the prunings from the landside toe. |                        |              |    |                        |               |

No Photos

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|

## Sutter Maintenance Yard Maintenance Area 0005



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 3.61                 | Rating **    | M  | Issue No.              | 904           |
| LM End   | 3.61                 | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.649522 °            | 39.649522 °   |
|          |                      |              |    | -121.787965 °          | -121.787965 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50841  
DS\_ID:1615  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/15/2016 Abandoned- slide gate is opened and inoperable. Needs to be properly abandoned. (DWR Sutter Yard-AFreitag)5/9/2016 Abandoned crossing. Slide gate stem bent and wheel is missing.8/5/2015 Abandoned crossing. Slide gate stem is bent and gate is inoperable. Needs to be properly abandoned.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned. FIELD\_STRUCT\_DESC: 30-inch corrugated metal irrigation pipe (siphon) through the levee, 10.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS) toe and concrete overflow and siphon box at the edge of berm. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 368+17)].  
FS Date: 11/21/2016 1:32:46 PM

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>3.61</b> | Rating **    | M  | Issue No.  | <b>904 (cont)</b> |
| LM End   | <b>3.61</b> | Issue Type + | En | Location * | LS                |

Photo 1 of 2 : UCIP\_FA\_2016\_50841\_67928.jpg



Concrete distribution box on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50841\_67927.jpg



CMP riser with slide gate on WS shoulder. Notice bent screw in open position.

| * Location                                      | ** Rating  | + Issue Type   |
|---|--|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain  |
| N/A : Not Applicable                            |  | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 3.90                 | Rating **    | M  | Issue No.              | 905           |
| LM End   | 3.90                 | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.645846 °            | 39.645846 °   |
|          |                      |              |    | -121.785155 °          | -121.785155 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50846  
DS\_ID:1619  
EP\_NO: 6544-A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: 11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/9/2016 Crossing appears to be in good condition. 8/5/2015 Pipe is suspected to cross inside of bridge. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/20/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/30/2012 Pipeline should be marked where pipe crosses levee as it is 4-feet below the surface.  
FIELD\_STRUCT\_DESC: 6-inch concrete encased steel high pressure gas pipeline through the levee, 4 feet below the crown. 8-inch diameter Pacific Gas & Electric gas access manhole located on the south side of the road 250-feet east of the levee crown. (Permit No. 6544A, 1969 - Pacific Gas & Electric) [Additional Reference(s): DWR Levee Log, 1990].  
FS Date: 11/21/2016 1:36:44 PM

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>3.90</b> | Rating **    | M  | Issue No.  | <b>905 (cont)</b> |
| LM End   | <b>3.90</b> | Issue Type + | En | Location * | LS                |

Photo 1 of 2 : UCIP\_FA\_2016\_50846\_67936.jpg



PG&E access lid on south edge of roadway.

Photo 2 of 2 : UCIP\_FA\_2016\_50846\_67935.jpg



Location of PG&E access lid 250-feet east of levee crown on south side of roadway.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

|                                 |                         |              |    |                        |               |
|---------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                        | 4.13                    | Rating **    | M  | Issue No.              | 27            |
| LM End                          | 4.13                    | Issue Type + | En | Location *             | LS            |
| Category                        | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                 |                         |              |    | Start                  | End           |
| Item                            | Encroachments           |              |    | 39.643100 °            | 39.643100 °   |
|                                 |                         |              |    | -121.782827 °          | -121.782827 ° |
| DWR ID                          | DWR_MA0005_01_s_2016_27 |              |    |                        |               |
| Comment Code                    |                         |              |    |                        |               |
| EQ : Equipment                  |                         |              |    |                        |               |
| Inspector Comment               |                         |              |    |                        |               |
| Agricultural piping on trailer. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_27\_20160823\_00009.jpg



5/5/2016: Remove equipment from L/S toe.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 5.56                 | Rating **    | M  | Issue No.              | 906           |
| LM End  | 5.56                 | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.624559 °            | 39.624559 °   |
|   |                      |              |    | -121.772141 °          | -121.772141 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50847<br>DS_ID:1768<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/15/2016 Abandoned. Needs standpipe cover. (DWR Sutter Yard- A Freitag)5/9/2016 Abandoned pipe. Needs a cover for standpipe.8/5/2015 Abandoned pipes. Need covers made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate on WS. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" shaped headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960 (Station 470+00)].<br>FS Date: 11/21/2016 1:38:13 PM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50847\_67939.jpg



Headwall at LS toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |  |
|---|----------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 5.56                 | Rating **    | M  | Issue No.              | 906 (cont)    |  |
| LM End  | 5.56                 | Issue Type + | En | Location *             | LS            |  |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |  |
|   |                      |              |    | Start                  | End           |  |
| Item  | DWR UCIP Field Study |              |    | 39.624559 °            | 39.624559 °   |  |
|   |                      |              |    | -121.772141 °          | -121.772141 ° |  |
| DWR ID  |                      |              |    |                        |               |  |
| Comment Code  |                      |              |    |                        |               |  |
|   |                      |              |    |                        |               |  |
| Inspector Comment   |                      |              |    |                        |               |  |
| FS_ID:50847<br>DS_ID:1768<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/15/2016 Abandoned. Needs standpipe cover. (DWR Sutter Yard- A Freitag)5/9/2016 Abandoned pipe. Needs a cover for standpipe.8/5/2015 Abandoned pipes. Need covers made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate on WS. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" shaped headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960 (Station 470+00)].<br>FS Date: 11/21/2016 1:38:13 PM |                      |              |    |                        |               |  |

Photo 2 of 2 : UCIP\_FA\_2016\_50847\_67938.jpg



Headwall at LS toe.

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 5.56                 | Rating **    | M  | Issue No.              | 907           |
| LM End  | 5.56                 | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.624559 °            | 39.624559 °   |
|   |                      |              |    | -121.772141 °          | -121.772141 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50848<br>DS_ID:1620<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/15/2016 Abandoned. Needs cover for the standpipe. (DWR Sutter Yard- AFreitag)5/9/2016 Abandoned pipe. Needs a cover for the standpipe.8/5/2015 Abandoned crossing. Covers need to be made for tops of standpipes to prevent falls.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate end.<br>FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 36-inch drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960 (Station 470+00)].<br>FS Date: 11/21/2016 1:39:16 PM |                      |              |    |                        |               |

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>5.56</b> | Rating **    | M  | Issue No.  | <b>907 (cont)</b> |
| LM End   | <b>5.56</b> | Issue Type + | En | Location * | LS                |

Photo 1 of 2 : UCIP\_FA\_2016\_50848\_67941.jpg



Headwall at LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50848\_67940.jpg



54-inch CMP riser and slide gate on WS shoulder.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 5.69                    | Rating **    | M  | Issue No.              | 55            |
| LM End            | 6.23                    | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.622766 °            | 39.615666 °   |
|                   |                         |              |    | -121.773159 °          | -121.777353 ° |
| DWR ID            | DWR_MA0005_01_s_2015_55 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| DT : Ditch        |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_55\_20160823\_00025.jpg



View of the irrigation ditch along the landside toe.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | 5.81                    | Rating **    | U  | Issue No.              | 56            |
| LM End   | 5.81                    | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Erosion / Bank Caving   |              |    | 39.621261 °            | 39.621261 °   |
|  |                         |              |    | -121.773973 °          | -121.773973 ° |
| DWR ID   | DWR_MA0005_01_f_2016_56 |              |    |                        |               |
| Comment Code   |                         |              |    |                        |               |
| E2 : Schedule repair of erosion site prior to the next inspection. |                         |              |    |                        |               |
| Inspector Comment  |                         |              |    |                        |               |
|  |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2016\_MA0005\_196\_56\_20161014\_00068.jpg



View of the landside toe erosion.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>5.81</b> | Rating **    | U  | Issue No.  | <b>56 (cont)</b> |
| LM End   | <b>5.81</b> | Issue Type + | Ma | Location * | LS               |

Photo 2 of 2 : FA\_2016\_MA0005\_196\_56\_20161014\_00070.jpg



Another view of the landside toe erosion.

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|

## Levee Inspection Report By Mile - Fall 2016

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_57\_20161014\_00071.jpg




View of the landside slope erosion.

Photo 1 of 1 : FA\_2016\_MA0005\_196\_58\_20161014\_00072.jpg



View of the damaged landside slope by vehicle traffic.

Photo 1 of 1 : FA\_2016\_MA0005\_196\_59\_20161014\_00073.jpg



View of the rocks and cut in the landside levee toe.

| * Location                             | ** Rating   | + Issue Type                      |
|--|---|-----------------------------------|
| LS : Land Side    N/A : Not Applicable | A : Acceptable                      N : Not Inspected/Rated               | Ma : Maintenance Deficiency       |
| WS : Water Side                        | M : Minimally Acceptable        C : Corrected                             | Ob : Design & System Obsolescence |
| CR : Crown                             | U : Unacceptable                  A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 7.58                 | Rating **    | M  | Issue No.              | 908           |
| LM End   | 7.58                 | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.597725 °            | 39.597725 °   |
|          |                      |              |    | -121.787257 °          | -121.787257 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50864  
DS\_ID:1628  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/15/2016 Appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)5/11/2016 Possibly an abandoned crossing. LS inlet was over 50% buried and nothing was found on the WS.8/4/2015 LS pipe end filled about 50% with soil and WS pipe end is buried.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil and outlet/appurtenances are buried.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwall on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 576+72), USACE As-built Drawings 50-4-2637, Exhibit B, Sheet 2, April 1950 (station 576+72.4)].  
FS Date: 11/21/2016 1:51:54 PM

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>7.58</b> | Rating **    | M  | Issue No.  | <b>908 (cont)</b> |
| LM End   | <b>7.58</b> | Issue Type + | En | Location * | LS                |

Photo 1 of 2 : UCIP\_FA\_2016\_50864\_67970.jpg



Headwall at LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50864\_67969.jpg



Headwall at LS toe.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 8.21                 | Rating **    | M  | Issue No.              | 909           |
| LM End   | 8.21                 | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.589751 °            | 39.589751 °   |
|          |                      |              |    | -121.792818 °          | -121.792818 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50865  
DS\_ID:1629  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/15/2016 LS inlet was unburied and entire pipe is about 25% full of soil. WS flapgate was shut and partially buried. (DWR Sutter Yard- A Freitag) 5/11/2016 WS flap gate was about 50% buried and LS was 100% buried. Appears to be an abandoned crossing. 8/4/2015 WS flap gate is partially buried by soil and being overgrown with vegetation. LS pipe end was underwater and suspected to still be completely buried with soil. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/30/2012 Pipe filled with soil.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwall at the landside (LS) and the WS toes.  
[Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M 515, April 1955 (Station 609+79). USACE As-Built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 609+78.5)].  
FS Date: 11/21/2016 1:53:01 PM

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>8.21</b> | Rating **    | M  | Issue No.  | <b>909 (cont)</b> |
| LM End   | <b>8.21</b> | Issue Type + | En | Location * | LS                |

Photo 1 of 2 : UCIP\_FA\_2016\_50865\_67973.jpg



Outlet at WS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50865\_67972.jpg



Buried inlet at LS toe.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|

## Sutter Maintenance Yard Maintenance Area 0005

WS shoulder.

Page 22 of 28



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|                   |                        |              |    |                        |               |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start          | 9.54                   | Rating **    | M  | Issue No.              | 5             |
| LM End            | 10.33                  | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|                   |                        |              |    | Start                  | End           |
| Item              | Encroachments          |              |    | 39.574837 °            | 39.567892 °   |
|                   |                        |              |    | -121.807913 °          | -121.819283 ° |
| DWR ID            | DWR_MA0005_01_s_2012_5 |              |    |                        |               |
| Comment Code      |                        |              |    |                        |               |
| DT : Ditch        |                        |              |    |                        |               |
| Inspector Comment |                        |              |    |                        |               |
|                   |                        |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_5\_20160823\_00003.jpg



View of the agricultural ditch along the landside toe.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | 10.04                | Rating **    | M  | Issue No.              | 913           |
| LM End   | 10.04                | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 39.570596 °            | 39.570596 °   |
|  |                      |              |    | -121.815215 °          | -121.815215 ° |
| DWR ID   |                      |              |    |                        |               |
| Comment Code   |                      |              |    |                        |               |
|  |                      |              |    |                        |               |
| Inspector Comment  |                      |              |    |                        |               |
| FS_ID:50873<br>DS_ID:1633<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe and headwall buried on WS, no access to slide gate.<br>FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). Flap gate and headwall on the landside (LS). Concrete headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 706+00)].<br>FS Date: 11/21/2016 2:20:10 PM |                      |              |    |                        |               |

Photo 1 of 1 : UCIP\_FA\_2016\_50873\_67986.jpg



Flap gate and headwall at LS toe in irrigation or drainage ditch.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|------|------------|--------------------------|--------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 10.26                | Rating **    | M  | Issue No.              | 914           |
| LM End   | 10.26                | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.568523 °            | 39.568523 °   |
|          |                      |              |    | -121.818232 °          | -121.818232 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50874  
DS\_ID:1634  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal irrigation pipe through the levee, 14.5 feet below the crown. Slide gate on the waterside (WS) on concrete headwall. Flap gate on the landside (LS).  
[Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 515, April 1955 (Station 717+50)].  
FS Date: 11/21/2016 2:25:16 PM

|          |       |              |    |            |            |
|----------|-------|--------------|----|------------|------------|
| LM Start | 10.26 | Rating **    | M  | Issue No.  | 914 (cont) |
| LM End   | 10.26 | Issue Type + | En | Location * | LS         |

Photo 1 of 2 : UCIP\_FA\_2016\_50874\_67989.jpg



Pipe and flap gate on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50874\_67988.jpg



headwall at WS toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start                                 | 10.37                   | Rating **    | M  | Issue No.              | 26            |
| LM End                                   | 10.37                   | Issue Type + | En | Location *             | LS            |
| Category                                 | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item                                     | Encroachments           |              |    | 39.567541 °            | 39.567541 °   |
|  |                         |              |    | -121.819786 °          | -121.819786 ° |
| DWR ID                                   | DWR_MA0005_01_s_2016_26 |              |    |                        |               |
| Comment Code                             |                         |              |    |                        |               |
| EQ : Equipment                           |                         |              |    |                        |               |
| Inspector Comment                        |                         |              |    |                        |               |
| Abandoned motorhomes and farm equipment. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_196\_26\_20160823\_00008.jpg



5/5/2016: Remove abandoned motorhome and equipment from L/S toe.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 10.84                | Rating **    | M  | Issue No.              | 915           |
| LM End  | 10.84                | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.562559 °            | 39.562559 °   |
|   |                      |              |    | -121.825808 °          | -121.825808 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50875<br>DS_ID:1635<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe buried on both sides of levee.<br>FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 748+53). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 4, April 1950 (Station 748+53)].<br>FS Date: 11/21/2016 2:26:09 PM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50875\_67991.jpg



Concrete headwall at LS toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



## Levee Inspection Report By Mile - Fall 2016

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

Photo 2 of 2 : UCIP\_FA\_2016\_50875\_67990.jpg



Concrete headwall at LS toe.

Photo 1 of 1 : FA\_2016\_MA0005\_196\_6\_20160823\_00004.jpg



View of the agricultural ditch along the landside toe.

| * Location  | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |

## Sutter Maintenance Yard Maintenance Area 0005

Buried pipe at concrete box, LS toe.

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Butte Creek | Left | 15.08      | 10/04/2016<br>10/04/2016 | Tariq<br>Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 14.46                | Rating **    | M  | Issue No.              | 912           |
| LM End   | 14.46                | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.522200 °            | 39.522200 °   |
|          |                      |              |    | -121.865592 °          | -121.865592 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50891  
DS\_ID:1639  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/15/2016 NO soil supporting the WS wing walls. (DWR Sutter Yard- A Freitag) 5/11/2016 Still no soil supporting the WS wing walls and apron. WS vegetation was thinner and not a problem this time. 8/4/2015 No soil supporting the WS wing walls at the WS pipe end. WS pipe end is also being overgrown with vegetation and should be cleared back. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/31/2012 Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the landside (LS) and the WS ends.  
[Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 978+25). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 5, April 1950 (Station 978+24.95)].  
FS Date: 11/21/2016 2:36:31 PM

|          |              |              |    |            |                   |
|----------|--------------|--------------|----|------------|-------------------|
| LM Start | <b>14.46</b> | Rating **    | M  | Issue No.  | <b>912 (cont)</b> |
| LM End   | <b>14.46</b> | Issue Type + | En | Location * | LS                |

Photo 1 of 2 : UCIP\_FA\_2016\_50891\_68033.jpg



Headwall at inlet on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50891\_68032.jpg



CMP pipe, flap gate, and headwall on WS toe.

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                               |  |                           | Bank                                     | Unit Miles                      |
|--|--|---------------------------|--|---------------------------------|
| Unit No. 02 Butte Creek                |  |                           | Right                                    | 16.27                           |
|  | Spring<br>(March - May)                  | Summer<br>(June - August) | (September - November)<br>Fall           | Winter<br>(December - February) |
| Unit Maintenance Rating<br>(Fall Only) |  |                           | <b>M *</b>                               |                                 |
| Date of Inspection                     | 5/5/2016 - 5/5/2016                      |                           | 10/4/2016 - 10/5/2016                    |                                 |
| DWR Inspector                          | Keith Millard                            |                           | Tariq Chechi                             |                                 |
| Accompanied By                         | Shawn Freitag<br>Sutter Maintenance Yard |                           | Shawn Freitag<br>Sutter Maintenance Yard |                                 |

\* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq<br>Chechi |

|                   |                        |              |    |                        |               |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start          | 1.21                   | Rating **    | M  | Issue No.              | 1             |
| LM End            | 1.59                   | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|                   |                        |              |    | Start                  | End           |
| Item              | Encroachments          |              |    | 39.529933 °            | 39.534102 °   |
|                   |                        |              |    | -121.861563 °          | -121.856947 ° |
| DWR ID            | DWR_MA0005_02_s_2012_1 |              |    |                        |               |
| Comment Code      |                        |              |    |                        |               |
| DT : Ditch        |                        |              |    |                        |               |
| Inspector Comment |                        |              |    |                        |               |
|                   |                        |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_1\_20160823\_00001.jpg



View of the agricultural ditch along the landside toe.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 1.86                    | Rating **    | M  | Issue No.              | 48            |
| LM End  | 1.86                    | Issue Type + | En | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Encroachments           |              |    | 39.536915 °            | 39.536915 °   |
|   |                         |              |    | -121.853669 °          | -121.853669 ° |
| DWR ID  | DWR_MA0005_02_f_2016_48 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| EQ : Equipment  |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
| Remove pile of soil and rocks and ag equipment from the toe of the levee. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_48\_20161014\_00068.jpg



View of soil pile, rocks, and ag equipment.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | 1.90                    | Rating **    | M  | Issue No.              | 49            |
| LM End   | 1.90                    | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Erosion / Bank Caving   |              |    | 39.537445 °            | 39.537445 °   |
|  |                         |              |    | -121.853112 °          | -121.853112 ° |
| DWR ID   | DWR_MA0005_02_f_2016_49 |              |    |                        |               |
| Comment Code   |                         |              |    |                        |               |
| E2 : Schedule repair of erosion site prior to the next inspection. |                         |              |    |                        |               |
| Inspector Comment  |                         |              |    |                        |               |
| Repair the erosion on the waterside toe of the levee.              |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_49\_20161014\_00069.jpg



View of the landside toe erosion.

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| * Location<br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | ** Rating<br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | + Issue Type<br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|---|--|--|--|--|--|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 1.91                 | Rating **    | U  | Issue No.              | 80            |
| LM End   | 1.91                 | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.537455 °            | 39.537455 °   |
|          |                      |              |    | -121.853061 °          | -121.853061 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50904  
DS\_ID:1645  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. 5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - afreitag)7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - afreitag)11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - afreitag)6/4/2014 Same as last inspection. (DWR Sutter Yard - afreitag)11/12/2013 Same as last inspection. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylie)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwall at both the LS and the WS toes. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515 (Station 902+50). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 5, April 1950 (Station 902+50)].  
FS Date: 11/22/2016 9:20:46 AM

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>1.91</b> | Rating **    | U  | Issue No.  | <b>80 (cont)</b> |
| LM End   | <b>1.91</b> | Issue Type + | En | Location * | LS               |

Photo 1 of 2 : UCIP\_FA\_2016\_50904\_68498.jpg



Concrete headwall and slide gate on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50904\_68497.jpg



Flap gate on WS slope.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 2.17                    | Rating **    | M  | Issue No.              | 50            |
| LM End  | 2.17                    | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Animal Control          |              |    | 39.540526 °            | 39.540526 °   |
|   |                         |              |    | -121.850023 °          | -121.850023 ° |
| DWR ID  | DWR_MA0005_02_f_2016_50 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_50\_20161014\_00070.jpg



View of the rodent holes along the landside slope.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | 2.87                 | Rating **    | M  | Issue No.              | 77            |
| LM End   | 2.87                 | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 39.549014 °            | 39.549014 °   |
|  |                      |              |    | -121.842866 °          | -121.842866 ° |
| DWR ID   |                      |              |    |                        |               |
| Comment Code   |                      |              |    |                        |               |
|  |                      |              |    |                        |               |
| Inspector Comment  |                      |              |    |                        |               |
| FS_ID:50905<br>DS_ID:1646<br>EP_NO: 3927<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Appears abandoned- pump removed from pier in Butte Creek also riser and siphon breaker are no longer seen on LS shoulder. (DWR Sutter Yard- A Freitag)5/23/2016 Crossing appears to have been abandoned and removed. Could not locate the LS riser and siphon breaker.7/28/2015 No pump present during any of my inspections. Crossing appears abandoned. CMP riser has been knocked out of levee. 11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pump does not appear to be in use or is abandoned.<br>FIELD_STRUCT_DESC: 20-inch (not 18-inch as referenced in the levee log) exterior coated steel irrigation pipe through the levee, 2.4 feet below the crown. Siphon breaker in a 24-inch corrugated metal riser on the landside (LS) shoulder. Portable pump on the waterside (WS). (Permit No. 3927, 1962 - Arrowhead Ranch). [Additional Reference(s): DWR Levee Log, 1990].<br>FS Date: 11/22/2016 9:26:11 AM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50905\_68057.jpg



Air vent in 24-inch CMP riser on LS shoulder.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | 2.87                 | Rating **    | M  | Issue No.              | 77 (cont)     |
| LM End   | 2.87                 | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 39.549014 °            | 39.549014 °   |
|  |                      |              |    | -121.842866 °          | -121.842866 ° |
| DWR ID   |                      |              |    |                        |               |
| Comment Code   |                      |              |    |                        |               |
|  |                      |              |    |                        |               |
| Inspector Comment  |                      |              |    |                        |               |
| FS_ID:50905<br>DS_ID:1646<br>EP_NO: 3927<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Appears abandoned- pump removed from pier in Butte Creek also riser and siphon breaker are no longer seen on LS shoulder. (DWR Sutter Yard- A Freitag)5/23/2016 Crossing appears to have been abandoned and removed. Could not locate the LS riser and siphon breaker.7/28/2015 No pump present during any of my inspections. Crossing appears abandoned. CMP riser has been knocked out of levee. 11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pump does not appear to be in use or is abandoned.<br>FIELD_STRUCT_DESC: 20-inch (not 18-inch as referenced in the levee log) exterior coated steel irrigation pipe through the levee, 2.4 feet below the crown. Siphon breaker in a 24-inch corrugated metal riser on the landside (LS) shoulder. Portable pump on the waterside (WS). (Permit No. 3927, 1962 - Arrowhead Ranch). [Additional Reference(s): DWR Levee Log, 1990].<br>FS Date: 11/22/2016 9:26:11 AM |                      |              |    |                        |               |

Photo 2 of 2 : UCIP\_FA\_2016\_50905\_68056.jpg



Pump on metal pier at WS toe.

|                   |                        |              |    |                        |               |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start          | 3.10                   | Rating **    | M  | Issue No.              | 7             |
| LM End            | 4.04                   | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|                   |                        |              |    | Start                  | End           |
| Item              | Encroachments          |              |    | 39.551780 °            | 39.562341 °   |
|                   |                        |              |    | -121.840507 °          | -121.829507 ° |
| DWR ID            | DWR_MA0005_02_s_2012_7 |              |    |                        |               |
| Comment Code      |                        |              |    |                        |               |
| DT : Ditch        |                        |              |    |                        |               |
| Inspector Comment |                        |              |    |                        |               |
|                   |                        |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_7\_20160823\_00004.jpg



View of the agricultural ditch along the landside toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 4.09                 | Rating **    | M  | Issue No.              | 62            |
| LM End   | 4.09                 | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.562875 °            | 39.562875 °   |
|          |                      |              |    | -121.828782 °          | -121.828782 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:48780  
DS\_ID:16300  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/23/2016 Crossing is not abandoned. Water was flowing through from the LS to WS. LS pipe inlet is about 100 yds from LS levee toe across the LS canal.7/28/2015 Crossing is listed as abandoned but it is not filled with concrete like crossings 1-4 here.11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Sutter Maintenance Yard supervisor Jason Cooper said there is a flap gate on the LS end of the pipe in the western most ditch to prevent high water flooding. Not sure if this is adequate, will talk to levee inspector to find out.11/01/2012 Pipe open on WS and is not filled with concrete.  
FIELD\_STRUCT\_DESC: 5 of 5: 60-inch corrugated metal drainage (originally irrigation) pipe through the levee, 16.6 feet below the crown. Concrete headwall on the landside (LS) and the waterside (WS) shoulders. Pipe partially plugged on the LS with a concrete wall. Flap gate installed on the concrete plug to allow floodwater from the LS to flow to the WS (Use changed after western canal realignment under Permit No. 16667, 1997 - Western Canal WD). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 2+00"A")].  
FS Date: 5/25/2016 12:55:00 PM

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>4.09</b> | Rating **    | M  | Issue No.  | <b>62 (cont)</b> |
| LM End   | <b>4.09</b> | Issue Type + | En | Location * | LS               |

Photo 1 of 2 : UCIP\_FA\_2016\_48780\_68084.jpg



Concrete headwall on LS shoulder

Photo 2 of 2 : UCIP\_FA\_2016\_48780\_68083.jpg



Concrete headwall on WS shoulder.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq<br>Chechi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 4.91                    | Rating **    | M  | Issue No.              | 51            |
| LM End  | 4.91                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Animal Control          |              |    | 39.571258 °            | 39.571258 °   |
|   |                         |              |    | -121.818045 °          | -121.818045 ° |
| DWR ID  | DWR_MA0005_02_f_2016_51 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_51\_20161014\_00071.jpg



View of the rodent holes along the landside slope.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | 5.35                 | Rating **    | M  | Issue No.              | 78            |
| LM End   | 5.35                 | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 39.576008 °            | 39.576008 °   |
|  |                      |              |    | -121.812599 °          | -121.812599 ° |
| DWR ID   |                      |              |    |                        |               |
| Comment Code   |                      |              |    |                        |               |
|  |                      |              |    |                        |               |
| Inspector Comment  |                      |              |    |                        |               |
| FS_ID:50920<br>DS_ID:1650<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/23/2016 Abandoned7/28/2015 Abandoned- still cannot locate a LS ans WS pipe end.11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Appears abandoned. Unable to locate outfall on WS. Unable to locate inlet on LS.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate and flap gate in a 56-inch corrugated metal riser on the waterside (WS) berm. Flap gate on the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 688+40). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 688+40)].<br>FS Date: 11/22/2016 10:09:44 AM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50920\_68105.jpg



Slide gate and flap gate inside CMP riser on WS berm.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq<br>Chechi |

|  |                      |              |    |                        |               |  |
|--|----------------------|--------------|----|------------------------|---------------|--|
| LM Start   | 5.35                 | Rating **    | M  | Issue No.              | 78 (cont)     |  |
| LM End   | 5.35                 | Issue Type + | En | Location *             | LS            |  |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |  |
|  |                      |              |    | Start                  | End           |  |
| Item   | DWR UCIP Field Study |              |    | 39.576008 °            | 39.576008 °   |  |
|  |                      |              |    | -121.812599 °          | -121.812599 ° |  |
| DWR ID   |                      |              |    |                        |               |  |
| Comment Code   |                      |              |    |                        |               |  |
|  |                      |              |    |                        |               |  |
| Inspector Comment  |                      |              |    |                        |               |  |
| FS_ID:50920<br>DS_ID:1650<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/23/2016 Abandoned7/28/2015 Abandoned- still cannot locate a LS ans WS pipe end.11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Appears abandoned. Unable to locate outfall on WS. Unable to locate inlet on LS.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate and flap gate in a 56-inch corrugated metal riser on the waterside (WS) berm. Flap gate on the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 515, April 1955 (Station 688+40). USACE As-built Drawing 50-4-2637, Exhibit B, Sheet 3, April 1950 (Station 688+40)].<br>FS Date: 11/22/2016 10:09:44 AM |                      |              |    |                        |               |  |

Photo 2 of 2 : UCIP\_FA\_2016\_50920\_68104.jpg



56-inch CMP riser on WS berm.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 5.89                    | Rating **    | M  | Issue No.              | 52            |
| LM End  | 5.89                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Animal Control          |              |    | 39.582914 °            | 39.582914 °   |
|   |                         |              |    | -121.807534 °          | -121.807534 ° |
| DWR ID  | DWR_MA0005_02_f_2016_52 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_52\_20161014\_00072.jpg



View of the rodent holes along the landside slope.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | 5.91                    | Rating **    | M  | Issue No.              | 34            |
| LM End   | 5.91                    | Issue Type + | En | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Encroachments           |              |    | 39.583052 °            | 39.583052 °   |
|  |                         |              |    | -121.807423 °          | -121.807423 ° |
| DWR ID   | DWR_MA0005_02_s_2015_34 |              |    |                        |               |
| Comment Code   |                         |              |    |                        |               |
| PR : Prunings  |                         |              |    |                        |               |
| Inspector Comment  |                         |              |    |                        |               |
| Remove the prunings and broken metal and concrete pipes from the landside toe. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_34\_20160823\_00012.jpg



View of the prunings along the landside toe.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 7.74                    | Rating **    | U  | Issue No.              | 53            |
| LM End  | 7.74                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Animal Control          |              |    | 39.605088 °            | 39.605088 °   |
|   |                         |              |    | -121.788569 °          | -121.788569 ° |
| DWR ID  | DWR_MA0005_02_f_2016_53 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| A1 : Exterminate rodents and backfill and compact or grout burrows. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2016\_MA0005\_197\_53\_20161014\_00073.jpg



View of the rodent holes along the landside slope.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>7.74</b> | Rating **    | U  | Issue No.  | <b>53 (cont)</b> |
| LM End   | <b>7.74</b> | Issue Type + | Ma | Location * | LS               |

Photo 2 of 2 : FA\_2016\_MA0005\_197\_53\_20161014\_00075.jpg



View of the rodent holes along the crown and waterside slope.

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|---|--|---|--|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start                                     | 7.75                    | Rating **    | M  | Issue No.              | 35            |
| LM End                                       | 7.75                    | Issue Type + | Ma | Location *             | LS            |
| Category                                     | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Encroachments           |              |    | 39.605205 °            | 39.605205 °   |
|  |                         |              |    | -121.788453 °          | -121.788453 ° |
| DWR ID                                       | DWR_MA0005_02_s_2015_35 |              |    |                        |               |
| Comment Code                                 |                         |              |    |                        |               |
| PR : Prunings                                |                         |              |    |                        |               |
| Inspector Comment                            |                         |              |    |                        |               |
| Remove the prunings from the landside slope. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_35\_20160823\_00013.jpg



View of the prunings along the landside slope.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 7.98                    | Rating **    | M  | Issue No.              | 13            |
| LM End  | 7.98                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Slope Stability         |              |    | 39.607710 °            | 39.607710 °   |
|   |                         |              |    | -121.785868 °          | -121.785868 ° |
| DWR ID  | DWR_MA0005_02_s_2012_13 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

Photo 1 of 2 : FA\_2016\_MA0005\_197\_13\_20160823\_00005.jpg



View of the vehicle erosion along the slope.

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>7.98</b> | Rating **    | M  | Issue No.  | <b>13 (cont)</b> |
| LM End   | <b>7.98</b> | Issue Type + | Ma | Location * | LS               |

Photo 2 of 2 : FA\_2016\_MA0005\_197\_13\_20160823\_00006.jpg



View of the vehicle erosion along the landside slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 8.00                 | Rating **    | M  | Issue No.              | 79            |
| LM End   | 8.00                 | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.607802 °            | 39.607802 °   |
|          |                      |              |    | -121.785597 °          | -121.785597 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50930  
DS\_ID:1656  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/14/2016 LS inlet almost completely full of soil. (DWR Sutter Yard- A Freitag) 5/23/2016 LS end is almost completely full of soil. 7/28/2015 Pipe is still over 3/4 full of soil. 11/24/2014 Same as last inspection. 6/04/2014 Same as last inspection. 11/12/2013 Same as last inspection. 6/6/2013 Same as last inspection. 10/31/2012 Pipe 3/4 full with soil on LS.  
FIELD\_STRUCT\_DESC: 24-inch (not 18-inch as shown in as-built drawings) corrugated metal drainage pipe through the levee, 6.7 feet below the crown. Concrete headwall at the landside (LS) toe. Flap gate on the waterside (WS). [Additional Reference(s): DWR Levee Logs, 1990. USACE As-Built Drawings 50-4-2637, Exhibit B, Sheet 2, April 1950 (Station 550+60)].  
FS Date: 11/22/2016 10:19:47 AM

|          |             |              |    |            |                  |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | <b>8.00</b> | Rating **    | M  | Issue No.  | <b>79 (cont)</b> |
| LM End   | <b>8.00</b> | Issue Type + | En | Location * | LS               |

Photo 1 of 2 : UCIP\_FA\_2016\_50930\_68129.jpg



Flap gate at WS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50930\_68128.jpg



Concrete headwall on LS toe.


| * Location                                      | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable                      | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
| N/A : Not Applicable                            | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  |



## Levee Inspection Report By Mile - Fall 2016

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq<br>Chechi |


Photo 1 of 1 : FA\_2016\_MA0005\_197\_40\_20160823\_00016.jpg



11/20/2014

View of the vehicle slope instability along the landside slope.

Photo 1 of 1 : FA\_2016\_MA0005\_197\_54\_20161014\_00076.jpg



View of the prunings along the landside toe.

Photo 1 of 1 : FA\_2016\_MA0005\_197\_47\_20161014\_00077.jpg



10/05/2016

View of the prunings along the landside toe.

| * Location                                      | ** Rating  | + Issue Type   |
|---|--|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | N/A : Not Applicable<br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain  |
|   |  | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start                                     | 8.77                    | Rating **    | M  | Issue No.              | 46            |
| LM End                                       | 8.77                    | Issue Type + | En | Location *             | LS            |
| Category                                     | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Encroachments           |              |    | 39.617750 °            | 39.617750 °   |
|  |                         |              |    | -121.778981 °          | -121.778981 ° |
| DWR ID                                       | DWR_MA0005_02_s_2016_46 |              |    |                        |               |
| Comment Code                                 |                         |              |    |                        |               |
| PR : Prunings                                |                         |              |    |                        |               |
| Inspector Comment                            |                         |              |    |                        |               |
| Remove the prunings from the landside slope. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_46\_20160823\_00021.jpg



View of the prunings along the landside toe.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 8.80                 | Rating **    | M  | Issue No.              | 63            |
| LM End  | 8.80                 | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.618163 °            | 39.618163 °   |
|   |                      |              |    | -121.778745 °          | -121.778745 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50940<br>DS_ID:1664<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard-AFreitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS.<br>FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 338+04). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 11 (Station 338+04)].<br>FS Date: 11/22/2016 10:37:46 AM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50940\_68406.jpg



WS outlet and concrete U shaped headwall.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |  |
|---|----------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 8.80                 | Rating **    | M  | Issue No.              | 63 (cont)     |  |
| LM End  | 8.80                 | Issue Type + | En | Location *             | LS            |  |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |  |
|   |                      |              |    | Start                  | End           |  |
| Item  | DWR UCIP Field Study |              |    | 39.618163 °            | 39.618163 °   |  |
|   |                      |              |    | -121.778745 °          | -121.778745 ° |  |
| DWR ID  |                      |              |    |                        |               |  |
| Comment Code  |                      |              |    |                        |               |  |
|   |                      |              |    |                        |               |  |
| Inspector Comment   |                      |              |    |                        |               |  |
| FS_ID:50940<br>DS_ID:1664<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard-AFreitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS.<br>FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 338+04). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 11 (Station 338+04)].<br>FS Date: 11/22/2016 10:37:46 AM |                      |              |    |                        |               |  |

Photo 2 of 2 : UCIP\_FA\_2016\_50940\_68404.jpg



Brambles and soil over pipe at inlet.

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 9.09                    | Rating **    | M  | Issue No.              | 45            |
| LM End            | 9.09                    | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.622017 °            | 39.622017 °   |
|                   |                         |              |    | -121.776552 °          | -121.776552 ° |
| DWR ID            | DWR_MA0005_02_s_2016_45 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| EQ : Equipment    |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_45\_20160823\_00020.jpg



Remove equipment and materials from the landside toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|  |                           |              |    |                        |               |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start                                     | 9.43                      | Rating **    | M  | Issue No.              | 55            |
| LM End                                       | 9.43                      | Issue Type + | En | Location *             | LS            |
| Category                                     | Earthen Levee             |              |    | GPS Latitude/Longitude |               |
|  |                           |              |    | Start                  | End           |
| Item   | Encroachments             |              |    | 39.626780 °            | 39.626780 °   |
|  |                           |              |    | -121.775198 °          | -121.775198 ° |
| DWR ID                                       | DWR_MA0005_02_f _ 2016_55 |              |    |                        |               |
| Comment Code                                 |                           |              |    |                        |               |
| PR : Prunings                                |                           |              |    |                        |               |
| Inspector Comment                            |                           |              |    |                        |               |
| Remove the prunings from the landside slope. |                           |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_55\_20161014\_00078.jpg



View of the prunings along the landside toe.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | 9.44                 | Rating **    | M  | Issue No.              | 64            |
| LM End   | 9.44                 | Issue Type + | En | Location *             | LS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 39.626894 °            | 39.626894 °   |
|  |                      |              |    | -121.775180 °          | -121.775180 ° |
| DWR ID   |                      |              |    |                        |               |
| Comment Code   |                      |              |    |                        |               |
|  |                      |              |    |                        |               |
| Inspector Comment  |                      |              |    |                        |               |
| FS_ID:50942<br>DS_ID:1666<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil.<br>FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 304+10). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 3 (Station 304+10)].<br>FS Date: 11/22/2016 12:04:57 PM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50942\_68417.jpg



View of outlet looking toward WS toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 9.44                 | Rating **    | M  | Issue No.              | 64 (cont)     |
| LM End  | 9.44                 | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.626894 °            | 39.626894 °   |
|   |                      |              |    | -121.775180 °          | -121.775180 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50942   |                      |              |    |                        |               |
| DS_ID:1666  |                      |              |    |                        |               |
| EP_NO: N/A  |                      |              |    |                        |               |
| Repair Type: Non-Urgent   |                      |              |    |                        |               |
| Crossing Status: Found  |                      |              |    |                        |               |
| UCIP Comments: 11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil.        |                      |              |    |                        |               |
| FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 304+10). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 3 (Station 304+10)]. |                      |              |    |                        |               |
| FS Date: 11/22/2016 12:04:57 PM   |                      |              |    |                        |               |

Photo 2 of 2 : UCIP\_FA\_2016\_50942\_68416.jpg



View of inlet on LS toe.

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 9.72                    | Rating **    | M  | Issue No.              | 56            |
| LM End            | 9.72                    | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.630937 °            | 39.630937 °   |
|                   |                         |              |    | -121.774960 °          | -121.774960 ° |
| DWR ID            | DWR_MA0005_02_f_2016_56 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| PR : Prunings     |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_56\_20161014\_00079.jpg



View of the prunings along the landside toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|                   |                        |              |    |                        |               |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start          | 10.38                  | Rating **    | M  | Issue No.              | 3             |
| LM End            | 10.38                  | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|                   |                        |              |    | Start                  | End           |
| Item              | Encroachments          |              |    | 39.639018 °            | 39.639018 °   |
|                   |                        |              |    | -121.781458 °          | -121.781458 ° |
| DWR ID            | DWR_MA0005_02_s_2012_3 |              |    |                        |               |
| Comment Code      |                        |              |    |                        |               |
| PR : Prunings     |                        |              |    |                        |               |
| Inspector Comment |                        |              |    |                        |               |
|                   |                        |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_3\_20160823\_00002.jpg



View of the prunings along the landside toe.

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 10.46                   | Rating **    | C  | Issue No.              | 14            |
| LM End            | 10.46                   | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.639967 °            | 39.639967 °   |
|                   |                         |              |    | -121.782152 °          | -121.782152 ° |
| DWR ID            | DWR_MA0005_02_s_2012_14 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| EQ : Equipment    |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

No Photos

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 10.47                   | Rating **    | M  | Issue No.              | 57            |
| LM End  | 10.47                   | Issue Type + | En | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Encroachments           |              |    | 39.640156 °            | 39.640156 °   |
|   |                         |              |    | -121.782397 °          | -121.782397 ° |
| DWR ID  | DWR_MA0005_02_f_2016_57 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| MA : Material                                       |                         |              |    |                        |               |
| Inspector Comment                                   |                         |              |    |                        |               |
| Remove broken concrete pipes from the landside toe. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_57\_20161014\_00080.jpg



View of the broken concrete pipes along the landside toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 10.63                   | Rating **    | M  | Issue No.              | 18            |
| LM End  | 10.63                   | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Slope Stability         |              |    | 39.642061 °            | 39.642061 °   |
|   |                         |              |    | -121.783861 °          | -121.783861 ° |
| DWR ID  | DWR_MA0005_02_s_2012_18 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_18\_20160823\_00008.jpg



View of the vehicle erosion along the slope of the levee.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 10.90                   | Rating **    | U  | Issue No.              | 41            |
| LM End  | 10.93                   | Issue Type + | En | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Encroachments           |              |    | 39.645508 °            | 39.645858 °   |
|   |                         |              |    | -121.786515 °          | -121.786742 ° |
| DWR ID  | DWR_MA0005_02_f_2014_41 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| FE : Fence  |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
| Remove or apply for permit for the fence along landside toe |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_41\_20160823\_00017.jpg



View of the new fence along the landside toe.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | 10.95                   | Rating **    | M  | Issue No.              | 58            |
| LM End   | 10.95                   | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Slope Stability         |              |    | 39.646045 °            | 39.646045 °   |
|  |                         |              |    | -121.786927 °          | -121.786927 ° |
| DWR ID   | DWR_MA0005_02_f_2016_58 |              |    |                        |               |
| Comment Code   |                         |              |    |                        |               |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. |                         |              |    |                        |               |
| Inspector Comment  |                         |              |    |                        |               |
|  |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_58\_20161014\_00081.jpg



View of the damaged landside slope.

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|---|--|---|--|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 10.96                   | Rating **    | M  | Issue No.              | 59            |
| LM End  | 10.99                   | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Trim / Thin Trees       |              |    | 39.646220 °            | 39.646598 °   |
|   |                         |              |    | -121.787055 °          | -121.787365 ° |
| DWR ID  | DWR_MA0005_02_f_2016_59 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| T1 : Trim trees to at least five feet above ground level. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

No Photos

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start                                   | 11.04                   | Rating **    | U  | Issue No.              | 60            |
| LM End                                     | 11.04                   | Issue Type + | En | Location *             | LS            |
| Category                                   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item                                       | Encroachments           |              |    | 39.647238 °            | 39.647238 °   |
|  |                         |              |    | -121.787866 °          | -121.787866 ° |
| DWR ID                                     | DWR_MA0005_02_f_2016_60 |              |    |                        |               |
| Comment Code                               |                         |              |    |                        |               |
| FE : Fence                                 |                         |              |    |                        |               |
| Inspector Comment                          |                         |              |    |                        |               |
| Apply for permit or remove the fence post. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_60\_20161014\_00082.jpg



View of a newly constructed fence.

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 11.05                   | Rating **    | M  | Issue No.              | 26            |
| LM End  | 11.05                   | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Vegetation              |              |    | 39.647400 °            | 39.647400 °   |
|   |                         |              |    | -121.787825 °          | -121.787825 ° |
| DWR ID  | DWR_MA0005_02_f_2012_26 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| V4 : Elderberries are blocking visibility and flood fight capability. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector       |
|-------------------------|-------|------------|--------------------------|-----------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq<br>Chechi |

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 11.10                   | Rating **    | M  | Issue No.              | 36            |
| LM End            | 11.10                   | Issue Type + | Ma | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.647913 °            | 39.647913 °   |
|                   |                         |              |    | -121.788330 °          | -121.788330 ° |
| DWR ID            | DWR_MA0005_02_s_2015_36 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| TR : Tree or limb |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_36\_20161014\_00083.jpg



Remove the tree log from the landside toe.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 11.12                | Rating **    | M  | Issue No.              | 65            |
| LM End  | 11.12                | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.648169 °            | 39.648169 °   |
|   |                      |              |    | -121.788541 °          | -121.788541 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50947<br>DS_ID:1670<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Appears abandoned- Slide gates in WS riser and LS distribution box missing. (DWR Sutter Yard-AFreitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 New flap gate installed on WS end of pipe. FIELD_STRUCT_DESC: 24-inch (not 18-inch concrete as shown in as-built drawings) corrugated metal irrigation pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Slide gate in concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 215+65). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 2 (Station 215+65)].<br>FS Date: 11/22/2016 12:31:54 PM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50947\_68429.jpg



CM riser on WS shoulder-missing slide gate.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |  |
|---|----------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 11.12                | Rating **    | M  | Issue No.              | 65 (cont)     |  |
| LM End  | 11.12                | Issue Type + | En | Location *             | LS            |  |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |  |
|   |                      |              |    | Start                  | End           |  |
| Item  | DWR UCIP Field Study |              |    | 39.648169 °            | 39.648169 °   |  |
|   |                      |              |    | -121.788541 °          | -121.788541 ° |  |
| DWR ID  |                      |              |    |                        |               |  |
| Comment Code  |                      |              |    |                        |               |  |
|   |                      |              |    |                        |               |  |
|   |                      |              |    |                        |               |  |
| Inspector Comment   |                      |              |    |                        |               |  |
| FS_ID:50947<br>DS_ID:1670<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Appears abandoned- Slide gates in WS riser and LS distribution box missing. (DWR Sutter Yard-AFreitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 New flap gate installed on WS end of pipe. FIELD_STRUCT_DESC: 24-inch (not 18-inch concrete as shown in as-built drawings) corrugated metal irrigation pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Slide gate in concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 215+65). USACE As-built Drawings 50-4-3367, April 1957, Exhibit B, Sheet 2 (Station 215+65)].<br>FS Date: 11/22/2016 12:31:54 PM |                      |              |    |                        |               |  |

Photo 2 of 2 : UCIP\_FA\_2016\_50947\_68433.jpg



Distribution box on LS toe. Missing slide gate at pipe entrance.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 11.12                | Rating **    | M  | Issue No.              | 66            |
| LM End   | 11.12                | Issue Type + | En | Location *             | LS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.648185 °            | 39.648185 °   |
|          |                      |              |    | -121.788563 °          | -121.788563 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50948  
DS\_ID:1671  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/14/2016 Appears abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing7/30/2015 Abandoned crossing. Unable to locate the WS end of pipe.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears abandoned. It needs to be abandoned properly.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal irrigation pipe through the levee, 9.4 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 215+46)].  
FS Date: 11/22/2016 12:47:44 PM

|          |       |              |    |            |           |
|----------|-------|--------------|----|------------|-----------|
| LM Start | 11.12 | Rating **    | M  | Issue No.  | 66 (cont) |
| LM End   | 11.12 | Issue Type + | En | Location * | LS        |

Photo 1 of 2 : UCIP\_FA\_2016\_50948\_68436.jpg



Pipe at concrete distribution box on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50948\_68435.jpg



CM riser with slide gate on WS shoulder.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|                   |                        |              |    |                        |               |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start          | 11.57                  | Rating **    | M  | Issue No.              | 6             |
| LM End            | 11.77                  | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|                   |                        |              |    | Start                  | End           |
| Item              | Encroachments          |              |    | 39.654349 °            | 39.657142 °   |
|                   |                        |              |    | -121.789531 °          | -121.788690 ° |
| DWR ID            | DWR_MA0005_02_s_2012_6 |              |    |                        |               |
| Comment Code      |                        |              |    |                        |               |
| DT : Ditch        |                        |              |    |                        |               |
| Inspector Comment |                        |              |    |                        |               |
|                   |                        |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_6\_20160823\_00003.jpg



View of the ditch along the Landside toe.

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 12.06                | Rating **    | M  | Issue No.              | 67            |
| LM End  | 12.06                | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.660980 °            | 39.660980 °   |
|   |                      |              |    | -121.786341 °          | -121.786341 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50949<br>DS_ID:1672<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing is not abandoned. Water was flowing through the standpipe on the WS shoulder. Unable to locate the source of the water or where it was flowing to.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 This pipe appears to be abandoned.<br>FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 12.3 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. 5-foot by 5-foot Concrete distribution box at landside (LS) toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 165+60)].<br>FS Date: 11/22/2016 12:56:17 PM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50949\_68439.jpg



5X5 concrete distribution box at LS toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |  |
|---|----------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 12.06                | Rating **    | M  | Issue No.              | 67 (cont)     |  |
| LM End  | 12.06                | Issue Type + | En | Location *             | LS            |  |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |  |
|   |                      |              |    | Start                  | End           |  |
| Item  | DWR UCIP Field Study |              |    | 39.660980 °            | 39.660980 °   |  |
|   |                      |              |    | -121.786341 °          | -121.786341 ° |  |
| DWR ID  |                      |              |    |                        |               |  |
| Comment Code  |                      |              |    |                        |               |  |
|   |                      |              |    |                        |               |  |
| Inspector Comment   |                      |              |    |                        |               |  |
| FS_ID:50949<br>DS_ID:1672<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing is not abandoned. Water was flowing through the standpipe on the WS shoulder. Unable to locate the source of the water or where it was flowing to.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 This pipe appears to be abandoned.<br>FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 12.3 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. 5-foot by 5-foot Concrete distribution box at landside (LS) toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 165+60)].<br>FS Date: 11/22/2016 12:56:17 PM |                      |              |    |                        |               |  |

Photo 2 of 2 : UCIP\_FA\_2016\_50949\_68438.jpg



42-inch CMP riser on WS shoulder with slide gate.

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 12.80                | Rating **    | M  | Issue No.              | 68            |
| LM End  | 12.80                | Issue Type + | En | Location *             | LS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.670982 °            | 39.670982 °   |
|   |                      |              |    | -121.783103 °          | -121.783103 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50950<br>DS_ID:1673<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Abandoned crossing. Needs a cover for the WS riser.8/3/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.6/6/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 126+91)].<br>FS Date: 11/22/2016 12:57:09 PM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50950\_68465.jpg



Broken slide gate in CM riser on WS slope.

|          |       |              |    |            |           |
|----------|-------|--------------|----|------------|-----------|
| LM Start | 12.80 | Rating **    | M  | Issue No.  | 68 (cont) |
| LM End   | 12.80 | Issue Type + | En | Location * | LS        |

Photo 2 of 2 : UCIP\_FA\_2016\_50950\_68464.jpg



Abandoned headwall on LS toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 12.83                   | Rating **    | M  | Issue No.              | 19            |
| LM End            | 12.83                   | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.671239 °            | 39.671239 °   |
|                   |                         |              |    | -121.782486 °          | -121.782486 ° |
| DWR ID            | DWR_MA0005_02_s_2012_19 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| PR : Prunings     |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_19\_20160823\_00009.jpg



View of the brush pile at the toe of the levee.

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 13.02                   | Rating **    | M  | Issue No.              | 44            |
| LM End            | 13.02                   | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.673685 °            | 39.673685 °   |
|                   |                         |              |    | -121.781313 °          | -121.781313 ° |
| DWR ID            | DWR_MA0005_02_s_2016_44 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| FW : Firewood     |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

No Photos

|                   |                        |              |    |                        |               |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start          | 13.04                  | Rating **    | M  | Issue No.              | 5             |
| LM End            | 13.04                  | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|                   |                        |              |    | Start                  | End           |
| Item              | Encroachments          |              |    | 39.673956 °            | 39.673956 °   |
|                   |                        |              |    | -121.781278 °          | -121.781278 ° |
| DWR ID            | DWR_MA0005_02_s_2012_5 |              |    |                        |               |
| Comment Code      |                        |              |    |                        |               |
| EQ : Equipment    |                        |              |    |                        |               |
| Inspector Comment |                        |              |    |                        |               |
|                   |                        |              |    |                        |               |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 13.06                   | Rating **    | M  | Issue No.              | 42            |
| LM End            | 13.06                   | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.674219 °            | 39.674219 °   |
|                   |                         |              |    | -121.781188 °          | -121.781188 ° |
| DWR ID            | DWR_MA0005_02_s_2016_42 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| FW : Firewood     |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_42\_20160823\_00018.jpg



View of the firewood pile at the landside toe.

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 13.15                   | Rating **    | M  | Issue No.              | 22            |
| LM End            | 13.15                   | Issue Type + | En | Location *             | WS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Encroachments           |              |    | 39.675311 °            | 39.675311 °   |
|                   |                         |              |    | -121.780371 °          | -121.780371 ° |
| DWR ID            | DWR_MA0005_02_s_2013_22 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| PR : Prunings     |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_22\_20160823\_00010.jpg



View of the prunings along the waterside toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | 13.15                | Rating **    | M  | Issue No.              | 69            |
| LM End   | 13.15                | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 39.675379 °            | 39.675379 °   |
|  |                      |              |    | -121.780319 °          | -121.780319 ° |
| DWR ID   |                      |              |    |                        |               |
| Comment Code   |                      |              |    |                        |               |
|  |                      |              |    |                        |               |
| Inspector Comment  |                      |              |    |                        |               |
| FS_ID:50951<br>DS_ID:1674<br>EP_NO: 1291<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Appears abandoned- needs to be done so properly (DWR Sutter Yard- AFreitag)5/11/2016 Appears to be an abandoned crossing.8/3/2015 Pipe appears to be abandoned. Pump on WS berm is still missing.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears to be abandoned. No pump found. Pipe should be abandoned properly.<br>FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 9.0 feet below the crown. Slide gate in a 36-inch corrugated metal riser on the waterside (WS) slope. Pump and a 36-inch concrete standpipe on the WS. Originally installed under (Permit No. 1291, 1948 - Hansen) Permit described as a 14-inch concrete pipe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 106+93)].<br>FS Date: 11/22/2016 12:58:04 PM |                      |              |    |                        |               |

Photo 1 of 1 : UCIP\_FA\_2016\_50951\_68488.jpg



Slide gate in CM riser on WS toe.

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 13.38                | Rating **    | M  | Issue No.              | 70            |
| LM End   | 13.38                | Issue Type + | En | Location *             | WS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.678267 °            | 39.678267 °   |
|          |                      |              |    | -121.778322 °          | -121.778322 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50954  
DS\_ID:1740  
EP\_NO: 17127  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/11/2016 Ws flap gate is being overgrown by vegetation. 8/3/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Flap gate needs to be dug out and unblocked. 6/4/2014 Same as last inspection. 11/13/2013 Flap gate is completely blocked from being able to open. 6/6/2013 Same as last inspection. 11/01/2012 Debris, soil, and vegetation creating minor blockage at flap gate outlet.  
FIELD\_STRUCT\_DESC: 36-Inch corrugated metal drainage pipe through the levee, 12-feet below the crown. 4-foot by 4-foot concrete box and slide gate on the landside (LS). Concrete headwall and flap gate at the waterside (WS) outlet. (Permit No. 17127, 1999 - Butte County, Department of Public Works)  
FS Date: 11/22/2016 1:02:51 PM

|          |              |              |    |            |                  |
|----------|--------------|--------------|----|------------|------------------|
| LM Start | <b>13.38</b> | Rating **    | M  | Issue No.  | <b>70 (cont)</b> |
| LM End   | <b>13.38</b> | Issue Type + | En | Location * | WS               |

Photo 1 of 2 : UCIP\_FA\_2016\_50954\_68491.jpg



Slide gate at 4X4 concrete box on LS slope.

Photo 2 of 2 : UCIP\_FA\_2016\_50954\_68490.jpg



Concrete headwall and flap gate on WS slope below line of rip-rap.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|                   |                           |              |    |                        |               |
|-------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start          | 13.54                     | Rating **    | M  | Issue No.              | 61            |
| LM End            | 13.54                     | Issue Type + | En | Location *             | LS            |
| Category          | Earthen Levee             |              |    | GPS Latitude/Longitude |               |
|                   |                           |              |    | Start                  | End           |
| Item              | Encroachments             |              |    | 39.680579 °            | 39.680579 °   |
|                   |                           |              |    | -121.778267 °          | -121.778267 ° |
| DWR ID            | DWR_MA0005_02_f _ 2016_61 |              |    |                        |               |
| Comment Code      |                           |              |    |                        |               |
| PR : Prunings     |                           |              |    |                        |               |
| Inspector Comment |                           |              |    |                        |               |
|                   |                           |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_61\_20161014\_00084.jpg



View of the prunings along the landside toe.

|                                  |                         |              |     |                        |               |
|----------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start                         | 13.76                   | Rating **    | A/W | Issue No.              | 20            |
| LM End                           | 13.95                   | Issue Type + | En  | Location *             | WS            |
| Category                         | Earthen Levee           |              |     | GPS Latitude/Longitude |               |
|                                  |                         |              |     | Start                  | End           |
| Item                             | Vegetation              |              |     | 39.683630 °            | 39.686221 °   |
|                                  |                         |              |     | -121.777916 °          | -121.779051 ° |
| DWR ID                           | DWR_MA0005_02_s_2012_20 |              |     |                        |               |
| Comment Code                     |                         |              |     |                        |               |
| V8 : Environmental Requirements. |                         |              |     |                        |               |
| Inspector Comment                |                         |              |     |                        |               |
|                                  |                         |              |     |                        |               |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 13.78                | Rating **    | M  | Issue No.              | 71            |
| LM End  | 13.78                | Issue Type + | En | Location *             | WS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.683896 °            | 39.683896 °   |
|   |                      |              |    | -121.778183 °          | -121.778183 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50961   |                      |              |    |                        |               |
| DS_ID:1680  |                      |              |    |                        |               |
| EP_NO: N/A  |                      |              |    |                        |               |
| Repair Type: Non-Urgent   |                      |              |    |                        |               |
| Crossing Status: Found  |                      |              |    |                        |               |
| UCIP Comments: 11/14/2016 Unable to locate. (DWR Sutter Yard-AFreitag)5/11/2016 Unable to locate.8/3/2015 Unable to locate.11/25/2014 Unable to locate.6/4/2014 Same as last inspection. Unable to locate.11/13/2013 Unable to locate.6/6/2013 Boiler has been removed and pipe buried on LS. Unable to locate.11/01/2012 Pipe appears to be abandoned. |                      |              |    |                        |               |
| FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 6.5 feet below the crown. Boiler attached to the landside (LS).  |                      |              |    |                        |               |
| [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 73+27)].   |                      |              |    |                        |               |
| FS Date: 11/22/2016 1:05:43 PM  |                      |              |    |                        |               |

Photo 1 of 1 : UCIP\_FA\_2016\_50961\_68534.jpg



Pipe attached at boiler on LS toe.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                      |              |    |                        |               |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start  | 13.94                | Rating **    | M  | Issue No.              | 72            |
| LM End  | 13.94                | Issue Type + | En | Location *             | WS            |
| Category  | Supplemental         |              |    | GPS Latitude/Longitude |               |
|   |                      |              |    | Start                  | End           |
| Item  | DWR UCIP Field Study |              |    | 39.685961 °            | 39.685961 °   |
|   |                      |              |    | -121.779041 °          | -121.779041 ° |
| DWR ID  |                      |              |    |                        |               |
| Comment Code  |                      |              |    |                        |               |
|   |                      |              |    |                        |               |
| Inspector Comment   |                      |              |    |                        |               |
| FS_ID:50962<br>DS_ID:1681<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Appears abandoned (DWR Sutter Yard-AFreitag)5/11/216 Abandoned crossing8/3/2015 Pipe still appears abandoned.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears to be abandoned.<br>FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe through the levee, 7.1 feet below the crown. Siphon breaker in a corrugated metal riser on the landside (LS) slope. One corrugated metal cutoff wall. Pipe is open on both ends. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 65+52)].<br>FS Date: 11/22/2016 1:06:32 PM |                      |              |    |                        |               |

Photo 1 of 1 : UCIP\_FA\_2016\_50962\_68535.jpg



CM riser with siphon breaker on LS shoulder.

|                                |                         |              |    |                        |               |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                       | 14.13                   | Rating **    | U  | Issue No.              | 43            |
| LM End                         | 14.13                   | Issue Type + | Ma | Location *             | LS            |
| Category                       | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                |                         |              |    | Start                  | End           |
| Item                           | Slope Stability         |              |    | 39.688715 °            | 39.688715 °   |
|                                |                         |              |    | -121.778345 °          | -121.778345 ° |
| DWR ID                         | DWR_MA0005_02_f_2014_43 |              |    |                        |               |
| Comment Code                   |                         |              |    |                        |               |
| S1 : Repair slope instability. |                         |              |    |                        |               |
| Inspector Comment              |                         |              |    |                        |               |
|                                |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_43\_20160823\_00019.jpg



View of the tilling into the landside slope.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|                        |                         |              |    |                        |               |
|------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start               | 14.33                   | Rating **    | U  | Issue No.              | 25            |
| LM End                 | 14.33                   | Issue Type + | En | Location *             | LS            |
| Category               | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                        |                         |              |    | Start                  | End           |
| Item                   | Encroachments           |              |    | 39.691580 °            | 39.691580 °   |
|                        |                         |              |    | -121.779254 °          | -121.779254 ° |
| DWR ID                 | DWR_MA0005_02_s_2012_25 |              |    |                        |               |
| Comment Code           |                         |              |    |                        |               |
| BU : Building          |                         |              |    |                        |               |
| Inspector Comment      |                         |              |    |                        |               |
| Unpermitted structure. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_25\_20160823\_00011.jpg



View of the buildings at the landside toe.

|                                     |                         |              |    |                        |               |
|-------------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                            | 14.39                   | Rating **    | M  | Issue No.              | 38            |
| LM End                              | 14.39                   | Issue Type + | Ma | Location *             | WS            |
| Category                            | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                     |                         |              |    | Start                  | End           |
| Item                                | Encroachments           |              |    | 39.692284 °            | 39.692284 °   |
|                                     |                         |              |    | -121.779394 °          | -121.779394 ° |
| DWR ID                              | DWR_MA0005_02_s_2016_38 |              |    |                        |               |
| Comment Code                        |                         |              |    |                        |               |
| TR : Tree or limb                   |                         |              |    |                        |               |
| Inspector Comment                   |                         |              |    |                        |               |
| Fallen trees on W/S slope of levee. |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_38\_20160823\_00015.jpg



5/5/2016: Remove fallen tree from W/S slope.

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|---|--|---|--|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 15.00                | Rating **    | M  | Issue No.              | 73            |
| LM End   | 15.00                | Issue Type + | En | Location *             | WS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.700903 °            | 39.700903 °   |
|          |                      |              |    | -121.779039 °          | -121.779039 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50967  
DS\_ID:1685  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/14/2016 Good condition- needs a cover for the riser. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a cover for riser. The rest of the crossing appears to be in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 42-inch steel irrigation pipe (siphon) through the levee, 10 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. 5 foot by 8 foot Concrete distribution box on the landside (LS). Two corrugated metal cutoff walls installed within the levee. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 8+30)].  
FS Date: 11/22/2016 1:10:13 PM

|          |              |              |    |            |                  |
|----------|--------------|--------------|----|------------|------------------|
| LM Start | <b>15.00</b> | Rating **    | M  | Issue No.  | <b>73 (cont)</b> |
| LM End   | <b>15.00</b> | Issue Type + | En | Location * | WS               |

Photo 1 of 2 : UCIP\_FA\_2016\_50967\_68570.jpg



Concrete distribution box with slide gate on LS toe.

Photo 2 of 2 : UCIP\_FA\_2016\_50967\_68569.jpg



CMP riser on WS shoulder with slide gate.

| * Location                                      | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable                      | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
| N/A : Not Applicable                            | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 15.26                | Rating **    | M  | Issue No.              | 74            |
| LM End   | 15.26                | Issue Type + | En | Location *             | WS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.704409 °            | 39.704409 °   |
|          |                      |              |    | -121.777803 °          | -121.777803 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50968  
DS\_ID:1686  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/14/2016 Still only WS standpipe visible. (DWR Sutter Yard- A Freitag) 5/11/2016 Only WS standpipe was visible. 8/3/2015 Only able to locate the standpipe on the WS. 11/25/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Same as last inspection. 6/6/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 12-inch steel irrigation pipe (siphon) through the levee, 10 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterside (WS) slope. 30-inch concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 145+53)].  
FS Date: 11/22/2016 1:11:15 PM

|          |              |              |    |            |                  |
|----------|--------------|--------------|----|------------|------------------|
| LM Start | <b>15.26</b> | Rating **    | M  | Issue No.  | <b>74 (cont)</b> |
| LM End   | <b>15.26</b> | Issue Type + | En | Location * | WS               |

Photo 1 of 2 : UCIP\_FA\_2016\_50968\_68572.jpg



CMP riser on WS slope with slide gate.

Photo 2 of 2 : UCIP\_FA\_2016\_50968\_68571.jpg



Concrete riser on LS toe.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|          |                      |              |    |                        |               |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 15.47                | Rating **    | M  | Issue No.              | 75            |
| LM End   | 15.47                | Issue Type + | En | Location *             | WS            |
| Category | Supplemental         |              |    | GPS Latitude/Longitude |               |
|          |                      |              |    | Start                  | End           |
| Item     | DWR UCIP Field Study |              |    | 39.707544 °            | 39.707544 °   |
|          |                      |              |    | -121.777701 °          | -121.777701 ° |
| DWR ID   |                      |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:50969  
DS\_ID:1687  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing is in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct covers for top of standpipe.11/02/2012 Good candidate for video inspection.  
FIELD\_STRUCT\_DESC: 1 of 2: 54-inch corrugated metal irrigation pipe (siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). Concrete headwall and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in the floodway. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 132+00)].  
FS Date: 11/22/2016 1:12:18 PM

|          |              |              |    |            |                  |
|----------|--------------|--------------|----|------------|------------------|
| LM Start | <b>15.47</b> | Rating **    | M  | Issue No.  | <b>75 (cont)</b> |
| LM End   | <b>15.47</b> | Issue Type + | En | Location * | WS               |

Photo 1 of 2 : UCIP\_FA\_2016\_50969\_68575.jpg



66-inch CMP riser on WS shoulder with slide gate.

Photo 2 of 2 : UCIP\_FA\_2016\_50969\_68574.jpg



Irrigation ditch at LS toe.

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | 15.48                | Rating **    | M  | Issue No.              | 76            |
| LM End   | 15.48                | Issue Type + | En | Location *             | WS            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 39.707569 °            | 39.707569 °   |
|  |                      |              |    | -121.777705 °          | -121.777705 ° |
| DWR ID   |                      |              |    |                        |               |
| Comment Code   |                      |              |    |                        |               |
|  |                      |              |    |                        |               |
| Inspector Comment  |                      |              |    |                        |               |
| FS_ID:50970<br>DS_ID:16316<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct cover for top of standpipe.11/01/2012 Good candidate for video inspection.<br>FIELD_STRUCT_DESC: 2 of 2: 54-inch corrugated metal irrigation pipe through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). A concrete headwall and an irrigation ditch are located at the landside (LS) toe. Edgar Slough riser units located in the floodway. [Additional Reference(s): DWR Levee Logs, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 132+00)].<br>FS Date: 11/22/2016 1:13:26 PM |                      |              |    |                        |               |

Photo 1 of 2 : UCIP\_FA\_2016\_50970\_68579.jpg



Concrete headwall at LS toe.

|          |              |              |    |            |                  |
|----------|--------------|--------------|----|------------|------------------|
| LM Start | <b>15.48</b> | Rating **    | M  | Issue No.  | <b>76 (cont)</b> |
| LM End   | <b>15.48</b> | Issue Type + | En | Location * | WS               |

Photo 2 of 2 : UCIP\_FA\_2016\_50970\_68578.jpg



Related structure out in floodway.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                | Bank  | Unit Miles | Inspection Start/End     | Inspector    |
|-------------------------|-------|------------|--------------------------|--------------|
| Unit No. 02 Butte Creek | Right | 16.27      | 10/04/2016<br>10/05/2016 | Tariq Chechi |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 16.05                   | Rating **    | U  | Issue No.              | 39            |
| LM End  | 16.05                   | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Animal Control          |              |    | 39.714016 °            | 39.714016 °   |
|   |                         |              |    | -121.782317 °          | -121.782317 ° |
| DWR ID  | DWR_MA0005_02_f_2016_39 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
| Backfill and compact the rodent holes.  |                         |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_197\_39\_20161014\_00085.jpg



View of the rodent holes along the landside slope.

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                                 |  |                           | Bank                                     | Unit Miles                      |
|--|--|---------------------------|--|---------------------------------|
| Unit No. 03 Little Chico Creek Diversion |  |                           | Left                                     | 1.49                            |
|  | Spring<br>(March - May)                  | Summer<br>(June - August) | (September - November)<br>Fall           | Winter<br>(December - February) |
| Unit Maintenance Rating<br>(Fall Only)   |  |                           | <b>A</b>                                 |                                 |
| Date of Inspection                       | 5/5/2016 - 5/5/2016                      |                           | 10/4/2016 - 10/4/2016                    |                                 |
| DWR Inspector                            | Keith Millard                            |                           | Tariq Chechi                             |                                 |
| Accompanied By                           | Shawn Freitag<br>Sutter Maintenance Yard |                           | Shawn Freitag<br>Sutter Maintenance Yard |                                 |

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Maintenance Area 0005**

| Waterway                                 | Bank | Unit Miles | Inspection Start/End     | Inspector    |
|--|------|------------|--------------------------|--------------|
| Unit No. 03 Little Chico Creek Diversion | Left | 1.49       | 10/04/2016<br>10/04/2016 | Tariq Chechi |

|  |                                       |              |    |                        |               |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start                                   | 0.68                                  | Rating **    | A  | Issue No.              | 2             |
| LM End                                     | 0.68                                  | Issue Type + | Ma | Location *             | CR            |
| Category                                   | Earthen Levee                         |              |    | GPS Latitude/Longitude |               |
|  |                                       |              |    | Start                  | End           |
| Item                                       | Crown Surface / Depressions / Rutting |              |    | 39.725967 °            | 39.725967 °   |
|  |                                       |              |    | -121.781501 °          | -121.781501 ° |
| DWR ID                                     | DWR_MA0005_03_f_2016_2                |              |    |                        |               |
| Comment Code                               |                                       |              |    |                        |               |
|  |                                       |              |    |                        |               |
| Inspector Comment                          |                                       |              |    |                        |               |
| Levee crown is well maintained by the LMA. |                                       |              |    |                        |               |
|  |                                       |              |    |                        |               |

Photo 1 of 1 : FA\_2016\_MA0005\_198\_2\_20161110\_00001.jpg



View of the levee crown.

|  |                      |              |    |                        |               |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start   | 1.44                 | Rating **    | U  | Issue No.              | 3             |
| LM End   | 1.44                 | Issue Type + | En | Location *             | CR            |
| Category   | Supplemental         |              |    | GPS Latitude/Longitude |               |
|  |                      |              |    | Start                  | End           |
| Item   | DWR UCIP Field Study |              |    | 39.732942 °            | 39.732942 °   |
|  |                      |              |    | -121.772445 °          | -121.772445 ° |
| DWR ID   |                      |              |    |                        |               |
| Comment Code   |                      |              |    |                        |               |
|  |                      |              |    |                        |               |
| Inspector Comment  |                      |              |    |                        |               |
| FS_ID:50111<br>DS_ID:1762<br>EP_NO: 16381<br>Repair Type: Urgent<br>Crossing Status: Not Found<br>UCIP Comments: 11/13/2013 Unable to locate. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. Unable to locate. (DWR Sutter Yard - afreitag)11/02/2012 Gasline not marked. Notes in permit indicate installation occurred. Owner needs to install markers. (DWR UCIP - wwylie)<br>FIELD_STRUCT_DESC: 1 of 2: 2-inch gas pipe of an unknown material through the levee, at an unknown depth below the crown, not found. (Permit No. 16381, 1995 - Meyer).<br>FS Date: 11/14/2013 1:28:00 PM |                      |              |    |                        |               |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|